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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER TECHNICAL REVIEW FORM

CHLORINATION (N.J.A.C. 7:10-11.16)

Water Purveyor			PWSID#		Municipality		
Ту	pe of Chlorination:	☐ Gas	☐ Hypochlorite	Other:			
	ake and Model of Feed Systontrol of Operation:			Design Chlori	Capacity: ine Residua		
Ch	lorine Contact Time:	minu	ites provided via				
Ge	eneral Information				YES	NO	N/A
1.	Is chlorination the last form	n of treatme	ent?				
2.	Is the chlorine treatment sy the water within the treatment	_	-				
3.	Is a comparator suitable for in accordance with Part 45 of Water and Wastewater a measuring chlorine residu	00CL-G of and supplies	Standard Methods for	the Examination	_		
4.	Is a room heater provided?)					
5.	If ammonia is added in cor is the ammonia treatment s ammonia and chlorine gas	separated fro	om the chlorination sys		□		0
Ch	nlorine Contact Time						
1.	Are the chlorination facilit chlorine residuals based on			ing minimum			
	pH level	Available C Free	hlorine Residual (ppm) Combined)			
	Up to 7.0	0.2	1.0				
	7.0 to 8.0	0.3	1.5				
	Over 8.0	0.4	2.0				

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Paş	ge 2 01 3		YES	NO	N/A
2.	For chlorination facilities which treat ground water sources, is a minimu contact time of 5 minutes provided to produce the above required free chresidual or 30 minutes to produce the above required combined chlorine	lorine			
3.	For chlorination facilities which treat surface water or ground water und direct influence of surface water, is a minimum chlorine contact time of minutes provided to produce the above required free chlorine residual?				
Ga	as Chlorinators				
1.	Is the chlorination system of the solution feed type?				
2.	Is the chlorination system located in an above-grade separate room with outside entrance only?	an			
3.	Is the chlorine room equipped with proper ventilation including an exhatan located near floor level with an outside switch?	ust			
4.	Is the chlorine room equipped with an outward opening door with panic hardware (i.e. pushbar on the inside of the door)?				
5.	Is an automatic chlorine leak alarm or an observation window to facilitate visual inspection of the chlorine room without opening the door of the croom provided?	hlorine			
6.	Is an ammonia solution available for testing chlorine leaks?				
7.	Are a minimum of 2 chlorine cylinders interconnected by a manifold and valved to permit rapid changeover provided?				
8.	For those facilities which do not have 24 hour supervision, is an automa switchover valve provided?				
9.	Are scales provided for determining the weight loss in each chlorine cyl-	inder?			
10	. Is the water supplied to the chlorinator protected against backsiphonage	?			
11	. Is the rotameter properly sized to prevent abnormally high chlorine apple Rotameter capacity:	ication?			
12	. Is a gas mask stored in a readily accessible location provided?				
13	. Is an automatic chlorinator with chlorine residual recorders and an alarm system to indicate chlorine failure provided for surface water systems an				

	systems which do not meet State microbiological standards?		I		
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н	pochlorinators	Y	ES	NO	N/A
,	poemormators				
1.	Has a Technical Review Form for Chemical Handling and Feeding been prepared for the chlorine feed?		I		
2.	Is a positive displacement type pump used?		I		
Oz	conators and Chlorine Dioxide Generators				
1.	Is post chlorination via gas chlorine or sodium hypochlorite provided?		I		
2.	Is equipment used for ozonation durable and corrosion resistant?		I		
3.	If chlorine dioxide is used, is sodium chlorite injected into the discharge line of the solution feed chlorinator with the formation of chlorine dioxide in a reaction chamber?		I		
4.	Does the maximum chlorine dioxide feed rate exceed 1.5 mg/l? Maximum feed rate:		I		
5.	Is each chlorine dioxide generator at least 95% efficient in producing chlorine dioxide?		I		
6.	Is a comparator suitable for determining chlorine residual by the D.P.D. method in accordance with Part 4500-C102D of Standard Methods for the Examination of Water and Wastewater and supplies of the necessary reagents provided for measuring chlorine residuals?		I		
**	*Submit appropriate engineering plans, specifications, reports, etc. to substanti	ate your an	iswe	rs. ***	
Ιh	ereby certify that answers provided herein are accurate and reflective of the proje	ct being cor	nside	red for a	approval
•	gnature of Engineer Date ofessional Engineer's Embossed Seal		N.J.	P.E. #	

Type or Print Name of Engineering Firm